

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Rush Creek	Biologist	Beranek, Ashley E
Local Waterbody Name	Rush Creek	WBIC	1240100
Water Type	RIVER	County(ies)	Iowa
Start Mile	0	Watershed(s)	LW11
End Mile	6.02	Trophic Status	TSI Not Applicable to Non-Lake
Size	6.02	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	07/09/2015
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 412 This AU: Mouth to confluence with trib near the intersection of Upper Wyoming Rd and Weaver Rd.		
Water Quality Trends	Condition has improved over time; water is not impaired.		
Comments:	This assessment unit is included in the 1980 trout streams list (class 2). This water was assessed during the 2016 listing cycle and is proposed for delisting based on new biological, habitat, and water quality data. This water was assessed during the 2018 listing cycle; new total phosphorus sample data may meet 2018 WisCALM listing criteria for the Fish and Aquatic Life use; however, temperature and available biological data did not indicate impairment (i.e. no macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the "poor" condition category).		

TMDL ID	412	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Sediment/Total Suspended Solids		
Impairment	Degraded Habitat		
TMDL Status	Water Delisted		

Impaired Waters Notes: 04/04/2014 Biologist recommends delisting degraded habitat impairment, TSS/Sediment in the draft 2016 list based on the biological, physical and water chemistry data collected for the study.

Document Title	Author Name	Comment
Rush Creek Monitoring Study Final Report	Jean Unmuth	
2014 Impaired Waters Documentation Sheet [Rush Creek, WBIC 1240100, AU 13342]	Jean Unmuth	

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Official Waterbody Name	Castle Rock Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Castle Rock Flowage	WBIC	1345700
Water Type	IMPOUNDMENT	County(ies)	Adams, Juneau
Start Mile		Watershed(s)	CW01, CW02, CW06
End Mile		Trophic Status	Eutrophic
Size	12385.63	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/11/2016
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 534; TMDL scoping beginning in 2010.		
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	<p>Sampling of Castle Rock Lake has found high levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in the sediments. PCBs and mercury have also been detected at limited sampling sites. Currently, a fish consumption advisory exists on the flowage for dioxin. Eutrophication is also a concern in this lake due to elevated phosphorus levels.</p> <p>This water was assessed during the 2014 listing cycle; total phosphorus sample data overwhelmingly exceed 2014 WisCALM listing thresholds for the Recreation use and exceeded Fish and Aquatic Life use, however, chlorophyll data do not exceed REC or FAL thresholds.</p> <p>This water was assessed during the 2016 listing cycle; new fish tissue data indicates that this waterbody should be removed from the impaired waters list for Dioxins. Total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and exceeded Fish and Aquatic Life use, however, chlorophyll data do not exceed REC or FAL thresholds.</p> <p>This water was assessed during the 2018 listing cycle; new total phosphorus sample data clearly exceed 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use.</p>		

TMDL ID	534	TMDL Priority	High
Date Listed	04/01/1998	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Fish and Aquatic Life
Impairment	Eutrophication, Water Quality Use Restrictions	Current Use:	Class III Trout
TMDL Status	TMDL Development	Attainable Use:	WWSF
		Designated Use:	Default FAL
		Listed For:	Recreation
		Current Use:	Full Body Contact
		Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 03/17/2011 Total nitrogen was removed from this water as this listing was in error. This should have been removed in 2008. Original listing may have been nutrients and when switching over N was accidentally chosen instead of TP as pollutant.

04/08/2010 Jim Kreitlow (NOR) documented dissolved oxygen standards violations while sampling the lake in the mid 1990s. Dissolved oxygen concentrations below 5 mg/l were generally found during the early morning hours, probably a result of algae respiration.

The cause of this impairment is likely a result of excessive nutrient loading (phosphorus) from point and nonpoint sources in the watershed. As a result, the flowage is very eutrophic with abundant algae growth.

The Petenwell and Castle Rock Flowages Comprehensive Management Plan was completed in 1996. This report indicates severe algal blooms cause periodic shifts in dissolved oxygen. During photosynthesis, dissolved oxygen values are high (11-12 mg/l) but during respiration, they can drop below 5.0 mg/l (STORET, 1992 was referenced). The report also indicates blue-green algae are the dominant phytoplankton in the Petenwell and Castle Rock Flowages. The report mentions that sediment sampling was completed in both flowages, but additional sampling was recommended. Previous sampling found high levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in the sediments. PCBs and mercury have also been detected at a limited number of sampling sites. Currently, a specific fish consumption advisory exists on the flowage for dioxin.

- 04/01/2008 Needs monitoring. Data documentation sheet did not include phosphorus so only total nitrogen was included from the 2002 data documentation sheet.
- 01/20/2014 This water was assessed during the 2014 listing cycle; total phosphorus sample data overwhelmingly exceed 2014 WisCALM listing thresholds for the Recreation use and exceeded Fish and Aquatic Life use, however, chlorophyll data do not exceed REC or FAL thresholds.
- 08/19/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and exceeded Fish and Aquatic Life use, however, chlorophyll data do not exceed REC or FAL thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	April 2, 2002

TMDL ID	534	TMDL Priority	Delisted 2008
Date Listed	04/01/1998	Confirmed?	
Pollutant	PCBs		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 04/01/2008 2008 303d list proposed delist for Mercury and PCB's only.

Document Title	Author Name	Comment
CASTLE ROCK FLOWAGE 2008 DATA DOCUMENTATION FOR IMPAIRED WATERS	Schrank, Candy	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	2002

TMDL ID	534	TMDL Priority	Delisted 2008
Date Listed	04/01/1998	Confirmed?	
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 12/19/2010 Castlerock Flowage has specific fish advice for the Wisconsin River from Petenwell Dam downstream to Castle Rock Dam (Castle Rock Flowage) for Carp All sizes for dioxin.

04/01/2002 Waterbody ID Code (WBIC): 1345700
County(ies): Adams, Juneau

Impaired Stream Reach (location and mileage):
 Entire Flowage (15 miles) \hat{c} River miles 159.7-174.8
 Dissolved oxygen, pH violations, FCA, Hg, PCB, Dioxin
 Cause of impairment -- Nutrients, contaminated sediment
 - Point and nonpoint sources

Jim Kreitlow (NOR) documented dissolved oxygen standards violations while sampling the lake in the mid 1990s. Dissolved oxygen concentrations below 5 mg/l were generally found during the early morning hours, probably a result of algae respiration. Values for pH above 9.0 were documented in 1994, 1995, 1996 and 1997 (9 of 107 samples).

The cause of this impairment is likely a result of excessive nutrient loading (phosphorus) from point and nonpoint sources in the watershed. As a result, the flowage is very eutrophic with abundant algae growth.

The Petenwell and Castle Rock Flowages Comprehensive Management Plan was completed in 1996. This report indicates severe algal blooms cause periodic shifts in dissolved oxygen. During photosynthesis, dissolved oxygen values are high (11-12 mg/l) but during respiration, they can drop below 5.0 mg/l (Storet, 1992 was referenced). The report also indicates blue-green algae are the dominant phytoplankton in the Petenwell and Castle Rock Flowages. The report also references sediment sampling has been completed in both flowages, however additional sampling is recommended. Previous sampling found high levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in the sediments. PCBs and mercury have also been detected at limited sampling sites. Currently, a fish consumption advisory exists on the flowage for PCBs, dioxin and mercury.

04/01/2008 2008 303d list proposed delist for Mercury and PCB's only.

Document Title	Author Name	Comment
CASTLE ROCK FLOWAGE 2008 DATA DOCUMENTATION FOR IMPAIRED WATERS WISCONSIN SPECIFIC ADVICE	Schrank, Candy	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	2002

TMDL ID	534	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Dioxin		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 10/13/2010 Sampling has found high levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in the sediments. PCBs and mercury have also been detected at limited sampling sites. However there is no specific advice for PCBs and mercury but Castlerock Flowage has specific fish advice for the Wisconsin River from Petenwell Dam downstream to Castle Rock Dam (Castle Rock Flowage) for Carp for dioxin.

08/19/2015 This water was assessed during the 2016 listing cycle; new fish tissue data indicates that this waterbody should be removed from the impaired waters list for Dioxins.

Document Title	Author Name	Comment
Notes on Proposed Changes to Fish Consumption Advice for 2014 Advisory July 2014	Candy Schrank	
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	

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CASTLE ROCK FLOWAGE IMPAIRED
WATER LISTING DOCUMENTATION
CASTLE ROCK FLOWAGE 2008 DATA
DOCUMENTATION FOR IMPAIRED WATERS

Hazuga, Mark

April 2, 2002

Schrank, Candy

Official Waterbody Name	Whitewater Creek	Biologist	W23321
Local Waterbody Name	Whitewater Creek	WBIC	813900
Water Type	RIVER	County(ies)	Walworth
Start Mile	16.26	Watershed(s)	LR14
End Mile	16.84	Trophic Status	TSI Not Applicable to Non-Lake
Size	.58	NPS Rank	High Stream
Measurement Unit	MILES	Last Monitored	
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	This AU: Whitewater Lake to headwaters.		
Water Quality Trends	Condition has improved over time; water is not impaired.		
Comments:	This portion of Whitewater Creek (miles 14-16) were incorrectly listed in 2012 due to spatial intersect errors. The TP data was applied to the appropriate portion of Whitewater Creek in 2016 - this portion is recommended for delisting based on the erroneous original listing.		

TMDL ID	2012-8	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus		
Impairment	Impairment Unknown		
TMDL Status	Water Delisted		

Impaired Waters Notes: 10/29/2015 The data originally used to list this portion of the waterbody was not in this portion of the stream. The portion that should have been listed has been added and this section removed.

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Official Waterbody Name	Dam Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Dam Lake (Sugar Camp Chain)	WBIC	1596900
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW42
End Mile		Trophic Status	Eutrophic
Size	732.09	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	08/18/2017
303d Listed?	Y		
DNR Category	Category 5C		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 472 (in part)		
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	<p>Dam Lake was on the 303(d) list due to mercury from atmospheric deposition. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory. Total phosphorus sample data exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use, however chlorophyll data do not exceed REC or FAL thresholds.</p>		

This water was assessed during the 2018 listing cycle; new total phosphorus sample data clearly exceed 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use, but chlorophyll data was below REC and FAL thresholds.

TMDL ID	472 (in part)	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 08/03/2015 This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	

TMDL ID	2016-234	TMDL Priority	High
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Impairment Unknown	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact
		Listed For:	Fish and Aquatic Life
		Current Use:	Two-Story
		Attainable Use:	FAL
		Designated Use:	Default FAL

Impaired Waters Notes: 08/03/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use, however chlorophyll data do not exceed REC or FAL thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir	Water Evaluation	

Assessments

Section

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Sand Lake	Biologist	Gauthier, Kevin J
Local Waterbody Name	Sand Lake (Sugar Camp Chain)	WBIC	1597000
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW42
End Mile		Trophic Status	Eutrophic
Size	547.41	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	10/03/2016
303d Listed?	Y		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 472 (in part) T39N R09E S20		
Water Quality Trends	Proposed for removal from impaired waters during assessment period.		
Comments:	Listed for Mercury in 1998. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide mercury advisory is sufficient because mercury concentrations fall in the range of the general advisory. Total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use and chlorophyll data did not exceed REC and FAL thresholds.		
	This water was assessed during the 2018 listing cycle; new total phosphorus and chlorophyll sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use. Total Phosphorus criteria for this lake were changed because this lake is no longer considered a Two-Story Fishery Lake. With this change there is no longer a total phosphorus impairment.		

TMDL ID	472 (in part)	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 08/06/2015 This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.

Document Title	Author Name	Comment
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	
Notes on Proposed Changes to Fish Consumption Advice for 2014 Advisory July 2014	Candy Schrank	

TMDL ID	2016-235	TMDL Priority	Not Applicable
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus		
Impairment	Water Quality Use Restrictions		
TMDL Status	Delist		

Impaired Waters Notes: 07/14/2017 This water was assessed during the 2018 listing cycle; new total phosphorus and chlorophyll sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use. Total Phosphorus criteria for this lake were changed because this lake is no longer considered a Two-Story Fishery Lake. With this change there is no longer a total phosphorus impairment.

08/06/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use and chlorophyll data did not exceed REC and FAL thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Pleasant Valley Br	Biologist	Beranek, Ashley E
Local Waterbody Name	Pleasant Valley Branch	WBIC	908500
Water Type	RIVER	County(ies)	Dane
Start Mile	0	Watershed(s)	SP05
End Mile	5.92	Trophic Status	TSI Not Applicable to Non-Lake
Size	5.92	NPS Rank	High Stream
Measurement Unit	MILES	Last Monitored	10/13/2017
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 367 Pleasant Valley Branch Gordon Creek Dane WWFF Cold Default-[Cold]		
Water Quality Trends	Condition has improved over time; water is not impaired.		
Comments:	TMDL approved 2005.		

Pleasant Valley Branch is a five-mile long stream located in southwestern Dane County. It is part of the Gordon Creek watershed and empties into Kittleson Valley Creek southeast of Daleyville. Currently, Pleasant Valley Branch supports a warm water forage fishery, however, the presence of brown trout and mottled sculpin demonstrate this stream's potential to support a cold water fishery. Pleasant Valley Branch is currently listed on the 303(d) list for degraded habitat due to sedimentation from overgrazing and a lack of habitat. However, several streambank stabilization and habitat restoration projects are currently underway in the stream.

This water was assessed during the 2016 listing cycle and is proposed for delisting based on new biological, habitat, and water quality data.

This water was assessed during the 2018 listing cycle; based on 2018 WisCALM listing criteria for the Fish and Aquatic Life use, available biological data did not indicate impairment (i.e. no macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the "poor" condition category).

TMDL ID	12237-367	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Sediment/Total Suspended Solids		
Impairment	Degraded Habitat		
TMDL Status	Water Delisted		

Impaired Waters Notes: 06/28/2005 Pleasant Valley Branch is a five-mile long stream located in southwestern Dane County. It is part of the Gordon Creek watershed and empties into Kittleson Valley Creek southeast of Daleyville. Currently, Pleasant Valley Branch supports a warm water forage fishery, however, the presence of brown trout and mottled sculpin demonstrate this stream's potential to support a cold water fishery. Pleasant Valley Branch is currently listed on the 303(d) list for degraded habitat due to sedimentation from overgrazing and a lack of habitat. However, several streambank stabilization and habitat restoration projects are currently underway in the stream.

In 2003, a section of Pleasant Valley Branch, starting at the northern CTH H crossing, and extending about ½ mile down stream, had stream bank work done as part of a Wildlife Habitat Improvement Program (WHIP) grant. Prior to this work, one brown trout and a few specimens of forage fish were found in this section of stream. The stream was wide, shallow, and the bottom was composed primarily of sand and silt. A 2004 post-rehabilitation habitat evaluation of this project area showed marginal

silt deposition (22%), with the majority of the substrate being composed of gravel or coarser material (59%). These findings, coupled with width to depth ratios of about 7:1, suggest "good" habitat quality for this section of rehabilitated stream. Also, three additional fish surveys were conducted to observe the effects of the restoration project. Two survey sites were replicates from the previous year in the area that had been restored and found 34 brown trout (2.5 - 13.9 inches), three brook trout (10.0 - 10.9 inches), 11 black crappie (6.6 - 7.3 inches), and four minnow and forage species.

A third section, downstream of where the restoration was to occur, found 29 brown trout (6.1 - 13.7 inches) and five other forage and minnow species, with white sucker and creek chub being the most abundant. Additional lands in the watershed have been enrolled in the Conservation Reserve Enhancement Program and another section of stream corridor is scheduled for rehabilitation work in 2005 under the state's Targeted Runoff Management Program.

09/08/2013

Pleasant Valley Branch is a five-mile long stream located in southwestern Dane County. It is part of the Gordon Creek watershed and empties into Kittleson Valley Creek southeast of Daleyville. Currently, Pleasant Valley Branch supports a warm water forage fishery, however, the presence of brown trout and mottled sculpin demonstrate this stream's potential to support a cold water fishery. Pleasant Valley Branch is currently listed on the 303(d) list for degraded habitat due to sedimentation from overgrazing and a lack of habitat. However, several streambank stabilization and habitat restoration projects are currently underway in the stream.

In 2003, a section of Pleasant Valley Branch, starting at the northern CTH H crossing, and extending about 1/2 mile down stream, had stream bank work done as part of a Wildlife Habitat Improvement Program (WHIP) grant. Prior to this work, one brown trout and a few specimens of forage fish were found in this section of stream. The stream was wide, shallow, and the bottom was composed primarily of sand and silt. A 2004 post-rehabilitation habitat evaluation of this project area showed marginal silt deposition (22%), with the majority of the substrate being composed of gravel or coarser material (59%). These findings, coupled with width to depth ratios of about 7:1, suggest "good" habitat quality for this section of rehabilitated stream. Also, three additional fish surveys were conducted to observe the effects of the restoration project. Two survey sites were replicates from the previous year in the area that had been restored and found 34 brown trout (2.5 - 13.9 inches), three brook trout (10.0 - 10.9 inches), 11 black crappie (6.6 - 7.3 inches), and four minnow and forage species. A third section, downstream of where the restoration was to occur, found 29 brown trout (6.1 - 13.7 inches) and five other forage and minnow species, with white sucker and creek chub being the most abundant. Additional lands in the watershed have been enrolled in the Conservation Reserve Enhancement Program and another section of stream corridor is scheduled for rehabilitation work in 2005 under the state's Targeted Runoff Management Program.

04/25/2005

Pleasant Valley Branch (908500, miles 0-5.92) is part of the Sugar-Pecatonica River Basin and the sediment TMDLs were approved by the USEPA August 24, 2005.

12/01/2014

This stream is proposed to be delisted from the draft 2016 impaired waters list. The health of the fishery, as measured by the coldwater IBI and catch-per-unit effort (extrapolated number of trout per mile), showed immediate improvement even in the absence of stocking. The tolerant fishery assemblage, made up predominantly of white suckers, creek chubs, and brook stickleback was replaced with a community of sensitive coldwater species consisting of brown trout, mottled sculpin, and brook lamprey. The coldwater IBI increased at all sites from "poor" and "fair" to "fair" and "good" after the rehabilitation.

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Sugar Pecatonica River Basin TMDLs 875300 WDNR WES, Tmdl
Swat Team

USEPA Decision Document for the Approval of
the Sugar Pecatonica TMDL 875300 USEPA

A Final Report of the Assessment of Pleasant James Amrhein
Valley Branch and Kittleson Valley Creek,
2014, A proposal for delisting Pleasant Valley
Branch from the state's 303(d) list of impaired
waters

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Mendota	Biologist	Beranek, Ashley E
Local Waterbody Name	James Madison Park Beach	WBIC	805400
Water Type	INLAND BEACH	County(ies)	Dane
Start Mile		Watershed(s)	LR10
End Mile		Trophic Status	Data Not Available
Size	.36	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	09/11/2016
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Condition has remained stable; water is not impaired.		
Comments:	<p>This beach was assessed for the 2014 Impaired Waters List and E. coli data exceed 2014 WisCALM listing criteria.</p> <p>This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.</p> <p>This beach was assessed for the 2018 listing cycle; E. coli data sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use.</p>		

TMDL ID	2008-26	TMDL Priority	Delisted 2016
Date Listed	04/01/2008	Confirmed?	
Pollutant	E. coli		
Impairment	Recreational Restrictions - Pathogens		
TMDL Status	Water Delisted		

Impaired Waters Notes: 08/27/2012 Greater than 15% of samples collected in 2007, 2008, and 2009 exceeded the 126 Geomean threshold.

01/21/2014 This beach was assessed for the 2014 Impaired Waters List and E. coli data exceed 2014 WisCALM listing criteria.

08/19/2015 This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.

Document Title	Author Name	Comment
Dane County 2014 Beach Assessments	Water Evaluation Section	
LAKE MONONA 2008 IMPAIRED WATERS DATA DOCUMENTATION 2008 BEACHES	Helmuth	Query SWIMS for Available Data
Dane County 2016 Beach Assessments	Water Evaluation Section	
2014 Beach E. coli Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Mendota	Biologist	Beranek, Ashley E
Local Waterbody Name	Marshall Park Beach	WBIC	805400
Water Type	INLAND BEACH	County(ies)	Dane
Start Mile		Watershed(s)	LR10
End Mile		Trophic Status	Data Not Available
Size	.22	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	08/18/2017
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Condition has remained stable; water is not impaired.		
Comments:	<p>This water was delisted in 2010, as per WisCALM 2010. However this beach was assessed for the 2014 Impaired Waters List and E. coli data exceed 2014 WisCALM listing criteria indicating a Recreational use impairment.</p> <p>This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.</p> <p>This beach was assessed for the 2018 listing cycle; E. coli data sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use.</p>		

TMDL ID	2014-212	TMDL Priority	Delisted 2016
Date Listed	04/01/2014	Confirmed?	
Pollutant	E. coli		
Impairment	Recreational Restrictions - Pathogens		
TMDL Status	Water Delisted		

Impaired Waters Notes:	10/24/2009	No samples exceeded the 126 Geomean threshold in 2006, 2007, and 2009. Insufficient number of samples for 2008.
	04/01/2010	Delisted in 2010. Originally IW ID: 2008-25.
	02/24/2014	This beach was reassessed for the 2014 listing cycle using the most recent data (added 2011 and 2012) and E. coli data exceed 2014 WisCALM listing criteria indicating a Recreational use impairment.
	08/19/2015	This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.

Document Title	Author Name	Comment
Dane County 2014 Beach Assessments	Water Evaluation Section	
LAKE MENDOTA BEACHES 2008 LIST DATA DOCUMENTATION		Query SWIMS for Available Data
Dane County 2016 Beach Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Ripley	Biologist	Beranek, Ashley E
Local Waterbody Name	Lake Ripley Beach	WBIC	809600
Water Type	INLAND BEACH	County(ies)	Jefferson
Start Mile		Watershed(s)	LR11
End Mile		Trophic Status	Eutrophic
Size	.09	NPS Rank	High Lake
Measurement Unit	MILES	Last Monitored	12/13/2017
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Condition has remained stable; water is not impaired.		
Comments:	This beach was assessed for the 2012 Impaired Waters List, and E. coli data exceeds listing thresholds indicating a recreational use impairment.		
	This beach was assessed for the 2014 Impaired Waters List and E. coli data exceed 2014 WisCALM listing criteria indicating a Recreational use impairment.		
	This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.		
	This beach was assessed for the 2018 listing cycle; E. coli data sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use.		

TMDL ID	2012-32	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	E. coli		
Impairment	Recreational Restrictions - Pathogens		
TMDL Status	Water Delisted		

Impaired Waters Notes:

01/11/2012	This beach was assessed for the 2012 Impaired Waters List, and E. coli data exceeds listing thresholds indicating a recreational use impairment.
02/27/2014	This beach was assessed for the 2014 Impaired Waters List and E. coli data exceed 2014 WisCALM listing criteria indicating a Recreational use impairment.
08/19/2015	This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.

Document Title	Author Name	Comment
2012 Jefferson County Beach Data	Nicole Clayton	
2014 Beach E. coli Assessments	Water Evaluation Section	
2016 Beach E. coli Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Wingra	Biologist	Beranek, Ashley E
Local Waterbody Name	Lake Wingra	WBIC	805000
Water Type	LAKE	County(ies)	Dane
Start Mile		Watershed(s)	LR08
End Mile		Trophic Status	Eutrophic
Size	336.28	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	02/26/2018
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2012 listing cycle, and total phosphorus sample data exceeded criteria. Specific Fish Consumption Advice for PCBs for Carp of all sizes.		

This water was assessed during the 2014 listing cycle; total phosphorus sample data clearly met 2014 WisCALM listing thresholds for Fish and Aquatic Life use. Total phosphorus did not clearly meet 2014 WisCALM listing thresholds for the Recreation use.

This water was assessed during the 2016 listing cycle; total phosphorus sample data clearly met 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use.

This water was assessed during the 2018 listing cycle; new total phosphorus sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use.

TMDL ID	2012-2026	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus		
Impairment	Impairment Unknown		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 07/13/2017 This water was assessed during the 2018 listing cycle; new total phosphorus sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use.

12/09/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data clearly met 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use.

Document Title	Author Name	Comment
Lake Wingra 805000 TP PkgRpt2012	Aaron Larson	
Lake Wingra 805000 Chla PkgRpt2012	Aaron Larson	
2012 303(d) Data Summary and Draft Recommendations for Yahara Chain of Lakes	WDNR	
2012 303(d) Listing Justifications for Yahara Chain of Lakes	WDNR	
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

TMDL ID 2012-1006
Date Listed 04/01/2012
Pollutant PCBs
Impairment Contaminated Fish Tissue
TMDL Status 303d Listed

TMDL Priority Low
Confirmed?
Listed For: Fish Consumption
Current Use: Specific Advice
Attainable Use: Fish Consumption
Designated Use: Fish Consumption

Impaired Waters Notes:

Document Title	Author Name	Comment
Lake Wingra 805000 PCB FishTissues	Ashley Beranek	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Underwood Creek	Biologist	Helker, Craig D
Local Waterbody Name	Underwood Creek	WBIC	16700
Water Type	RIVER	County(ies)	Milwaukee
Start Mile	0	Watershed(s)	MI03
End Mile	2.84	Trophic Status	TSI Not Applicable to Non-Lake
Size	2.84	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	10/31/2017
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		

Assessment Unit Comments U.C. concrete channel from confluence with Menomonee R. T7N R21E S20 NW NE to drop structure at Milwaukee Waukesha Co.Line, T7N R21E S30 NWSW

Water Quality Trends Water is impaired due to one or more pollutants and associated quality impacts.
Comments: This water was listed in 2010 based on fecal coliform and recreational restrictions.

This water was assessed during the 2012 listing cycle, and total phosphorus sample data exceed 2012 WisCALM listing criteria for the fish and aquatic life use, and biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

This water was assessed during the 2014 listing cycle; total phosphorus sample data exceed 2014 WisCALM listing criteria for the Fish and Aquatic Life use and biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

This water was assessed during the 2016 listing cycle; temperature data exceeded 2016 WisCALM listing thresholds for the Fish and Aquatic Life use. Total phosphorus sample data clearly met 2016 WisCALM listing criteria for the Fish and Aquatic Life use, however, biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

This water was assessed during the 2018 listing cycle; new chloride sample data exceed 2018 WisCALM listing criteria for the Fish and Aquatic Life use. New total phosphorus sample data assessed may met 2018 WisCALM listing criteria for the Fish and Aquatic Life use, however, biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category). Existing temperature data confirmed the 2016 listing for this water.

TMDL ID	2016-286	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Fish and Aquatic Life
Impairment	Degraded Biological Community, Elevated Water Temperature	Current Use:	FAL
TMDL Status	303d Listed	Attainable Use:	FAL
		Designated Use:	Default FAL Variance

Impaired Waters Notes: 08/30/2015 This water was assessed during the 2016 listing cycle; temperature data exceeded 2016 WisCALM listing thresholds for the Fish and Aquatic Life use.

Document Title	Author Name	Comment
Comprehensive 2016 Rivers Stream Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

TMDL ID	2012-85
Date Listed	04/01/2012
Pollutant	Total Phosphorus
Impairment	Degraded Biological Community
TMDL Status	Pollutant Removed

TMDL Priority	Delisted 2016
Confirmed?	
Listed For:	Fish and Aquatic Life
Current Use:	FAL
Attainable Use:	FAL
Designated Use:	Default FAL Variance

Impaired Waters Notes: 08/30/2011 Based on the total phosphorus criteria excursions and the corroborating biological assessment, degraded biological community impairment was added to the existing impaired water listing in 2012. This water was assessed during the 2012 listing cycle, and total phosphorus sample data exceed 2012 WisCALM listing criteria for the fish and aquatic life use, and biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category). List in 2010 based on fecal coliform and recreational restrictions.

02/26/2014 This water was assessed during the 2014 listing cycle; total phosphorus sample data exceed 2014 WisCALM listing criteria for the Fish and Aquatic Life use and biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

08/30/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data clearly met 2016 WisCALM listing criteria for the Fish and Aquatic Life use, however, biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

Document Title	Author Name	Comment
Comprehensive 2014 TP IBI Rivers Assessment	Water Evaluation Section	
Underwood Creek WBIC 10026 mIBI 2012 impairment assessment documentation	pracheil	Underwood Creek mIBI data
Comprehensive 2016 Rivers Stream Assessments	Water Evaluation Section	
2012_Milwaukee_Metro_Sewer_District_TP_Assessments	Pracheil	Summary of MMSD TP assessments used for the assembly of the 2012 impaired waters list
Underwood Creek WBIC 16700 fIBI 2012 impairment assessment documentation	pracheil	Underwood Creek warm mainstem fIBI data used for 2012 impaired waters assessments

TMDL ID	2018-013
Date Listed	04/01/2018
Pollutant	Chloride
Impairment	Chronic Aquatic Toxicity, Acute Aquatic Toxicity
TMDL Status	Addition

TMDL Priority	Low
Confirmed?	
Listed For:	Fish and Aquatic Life
Current Use:	FAL
Attainable Use:	FAL
Designated Use:	Default FAL Variance

Impaired Waters Notes: 06/30/2017 This water was assessed during the 2018 listing cycle; new chloride sample data exceed 2018 WisCALM listing criteria for the Fish and Aquatic Life use.

Document Title	Author Name	Comment
Comprehensive 2018 River/Stream Water Quality Assessments	Water Evaluation Section	

TMDL ID	2010-41
Date Listed	04/01/2010
Pollutant	Fecal Coliform
Impairment	Recreational Restrictions - Pathogens
TMDL Status	TMDL Approved

TMDL Priority	Not Applicable
Confirmed?	
Listed For:	Recreation
Current Use:	Full Body Contact
Attainable Use:	Full Body Contact
Designated Use:	Full Body Contact

Impaired Waters Notes: 03/09/2018 The Milwaukee River Watershed TMDL was approved by the EPA on March 9, 2018

and covers waters in the basin impaired for Total Phosphorus, Sediment/Total Suspended Solids, and bacteria (E. coli and Fecal Coliform).
 03/23/2010 Underwood Creek has been extensively modified, has concrete lining and drop structures and experiences flashy flow conditions. At modeled assessment points in Underwood Creek, based on monitoring data, fecal coliform counts exceed 400 cfu/100 ml 39% of time MN-13; 29% at MN-14 annually and 23% and 14% of time from May-September (which exceed WisCALM listing thresholds). 75% of the Fecal Coliform urban nonpoint loads cannot be explained but they could be caused by illicit connections or leaky sewers. Fecal coliform loadings from Underwood Creek contribute to high fecal coliform levels in the Menomonee River Watershed.

Document Title	Author Name	Comment
USEPA Approval Letter for the Milwaukee River Watershed TMDL	US EPA	
Total Maximum Daily Loads for Total Phosphorus, Total Suspended Solids, and Fecal Coliform: Milwaukee River Basin, Wisconsin	Milwaukee Metropolitan Sewerage District	
USEPA Decision Document for the Milwaukee River Watershed TMDL, WI	US EPA	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Wisconsin River	Biologist	Hazuga, Mark J
Local Waterbody Name	Wisconsin River (At Castle Rock Lake)	WBIC	1179900
Water Type	RIVER	County(ies)	Adams, Juneau
Start Mile	158.68	Watershed(s)	CW01, CW02, CW06
End Mile	173.27	Trophic Status	TSI Not Applicable to Non-Lake
Size	14.59	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	08/21/2015
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 530 (in part) and 534 This AU: Castle Rock Dam to Petenwell Dam.		
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	<p>The Petenwell and Castle Rock Flowages Comprehensive Management Plan was completed in 1996. This report indicates severe algal blooms cause periodic shifts in dissolved oxygen. During photosynthesis, dissolved oxygen values are high (11-12 mg/l) but during respiration, they can drop below 5.0 mg/l (Storet, 1992 was referenced). The report also indicates blue-green algae are the dominant phytoplankton in the Petenwell and Castle Rock Flowages. The report also references sediment sampling has been completed in both flowages, however additional sampling is recommended. Previous sampling found high levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in the sediments. PCBs and mercury have also been detected at limited sampling sites. Currently, a fish consumption advisory exists on the flowage for PCBs, mercury. New fish tissue data in the 2016 listing cycle indicates that the Dioxin listing can be removed.</p> <p>This water was assessed during the 2018 listing cycle; new macroinvertebrate sample data exceeded 2018 WisCALM listing criteria for the Fish and Aquatic Life use (i.e. at least one macroinvertebrate Index of Biotic Integrity (IBI) average scored in the poor condition category).</p>		

TMDL ID	530	TMDL Priority	Low
Date Listed	04/01/1998	Confirmed?	No
Pollutant	Mercury	Listed For:	Fish Consumption
Impairment	Contaminated Fish Tissue	Current Use:	Specific Advice
TMDL Status	303d Listed	Attainable Use:	Fish Consumption
		Designated Use:	Fish Consumption

Impaired Waters Notes: 11/26/2007 2008 IW Documentaiton Sheet:
Delist for Hg

Document Title	Author Name	Comment
CASTLE ROCK FLOWAGE 2008 DATA DOCUMENTATION FOR IMPAIRED WATERS	Schrank, Candy	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	

TMDL ID	530	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Dioxin	Listed For:	Fish Consumption
Impairment	Contaminated Fish Tissue	Current Use:	Specific Advice
TMDL Status	Pollutant Removed	Attainable Use:	Fish Consumption
		Designated Use:	Fish Consumption

Impaired Water Short Report

Date Report Run: 03/22/2018

Impaired Waters Notes: 09/29/2015 New fish tissue data indicates that this water no longer needs specific fish consumption advice for dioxins. Dioxin is proposed for deletion from the 2016 impaired waters list.

Document Title	Author Name	Comment
CASTLE ROCK FLOWAGE 2008 DATA DOCUMENTATION FOR IMPAIRED WATERS	Schrank, Candy	
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	

TMDL ID	530	TMDL Priority	High
Date Listed	04/01/1998	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Fish and Aquatic Life
Impairment	Eutrophication, Degraded Biological Community	Current Use:	WWSF
TMDL Status	TMDL Development	Attainable Use:	WWSF
		Designated Use:	Default FAL

Impaired Waters Notes: 03/22/2011 The Wisconsin River at Castle Rock Flowage, WBIC 1179900, incorrectly had pH and nitrogen as pollutant/impairment. The correct listing is now shown (same for the assessment unit Castlerock Flowage). Pollutant: TP, Impairment: Eutrophication. The nitrogen/Elevated pH was listed in error and should have been corrected in 2008. Most likely it was originally listed for nutrients, and accidentally someone chose N instead of P.

05/26/2017 This water was assessed during the 2018 listing cycle; new macroinvertebrate sample data exceeded 2018 WisCALM listing criteria for the Fish and Aquatic Life use (i.e. at least one macroinvertebrate Index of Biotic Integrity (IBI) average scored in the poor condition category).

Document Title	Author Name	Comment
Wisconsin River IW Documentation 1179900_10022223_TP_2000_2011	Emerson, Jordan	
Wisconsin River IW Documentation 1179900_293130_TP_2000_2011	Emerson, Jordan	
CASTLE ROCK FLOWAGE IMPAIRED WATER LISTING DOCUMENTATION	Hazuga, Mark	
Wisconsin River IW Documentation 1179900_10022223_DO_2000_2011	Emerson, Jordan	
Comprehensive 2018 River/Stream Water Quality Assessments	Water Evaluation Section	
Wisconsin River IW Documentation 1179900_293130_DO_2000_2011	Emerson, Jordan	

TMDL ID	530	TMDL Priority	Low
Date Listed	04/01/1998	Confirmed?	No
Pollutant	PCBs	Listed For:	Fish Consumption
Impairment	Contaminated Fish Tissue	Current Use:	Specific Advice
TMDL Status	303d Listed	Attainable Use:	Fish Consumption
		Designated Use:	Fish Consumption

Impaired Waters Notes: 11/26/2007 2008 IW Documentaiton Sheet: Delist for PCBs

Document Title	Author Name	Comment
CASTLE ROCK FLOWAGE 2008 DATA DOCUMENTATION FOR IMPAIRED WATERS	Schrank, Candy	

Impaired Water Short Report

Date Report Run: 03/22/2018

CASTLE ROCK FLOWAGE IMPAIRED
WATER LISTING DOCUMENTATION

Hazuga, Mark

Official Waterbody Name	Unnamed	Biologist	W23321
Local Waterbody Name	Local Water	WBIC	5032576
Water Type	RIVER	County(ies)	Ozaukee
Start Mile	0	Watershed(s)	MI02
End Mile	.92	Trophic Status	Data Not Available
Size	.92	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	
303d Listed?	N		
DNR Category	Category 3		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Condition data absent from databases and files.		
Comments:	This water was assessed during the 2014 listing cycle and chloride sample data exceed 2014 WisCALM listing criteria for the Fish and Aquatic Life use. This water was assessed during the 2016 listing cycle and it was determined that this stream should not be listed. The chloride data is for Ulao Creek, not this unnamed stream.		

TMDL ID	2014-193	TMDL Priority	Delisted 2016
Date Listed	04/01/2014	Confirmed?	
Pollutant	Chloride		
Impairment	Acute Aquatic Toxicity		
TMDL Status	Water Delisted		

Impaired Waters Notes: 01/21/2014 This water was assessed during the 2014 listing cycle and chloride sample data exceed 2014 WisCALM listing criteria for the Fish and Aquatic Life use.
08/21/2015 This waterbody was incorrectly listed in 2014. The station with the data was incorrectly mapped to this stream instead of Ulao Creek.

Document Title	Author Name	Comment
2014 Chloride Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Sissabagama Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Sissabagama Lake	WBIC	2393500
Water Type	LAKE	County(ies)	Sawyer
Start Mile		Watershed(s)	UC20
End Mile		Trophic Status	Eutrophic
Size	805.42	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	08/15/2017
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll a sample data exceed 2012 WisCALM listing thresholds for the recreation use; however Fish and Aquatic Life thresholds for total phosphorus and chlorophyll were not exceeded.		

This water was assessed during the 2014 listing cycle; total phosphorus and chlorophyll assessments were inconclusive for the Recreation use, listing will remain. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2016 listing cycle; chlorophyll sample data partially exceeded 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life thresholds. The TP listing is proposed for deletion, but the water will remain listed for excess algal growth.

This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

TMDL ID	2012-019	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 03/26/2012 This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll a sample data exceed 2012 WisCALM listing thresholds for the recreation use; however Fish and Aquatic Life thresholds for total phosphorus and chlorophyll were not exceeded. Based on a report from the regional biologist the high TP levels are noted as potentially natural conditions.

12/22/2015 This water was assessed during the 2016 listing cycle; chlorophyll sample data partially exceeded 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life thresholds. The TP listing is proposed for deletion, but the water will remain listed for excess algal growth.

Document Title	Author Name	Comment
Sissabagama Lake 2393500 Ch1a PkgRpt2012	Aaron Larson	
Sissabagama lake 2393500 TP 2012 Package	Ashley Beranek	
Sissabagama Lake Phosphorus Assessment, 2010	Craig Roesler	
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

TMDL ID	2016-307	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/12/2017 This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

12/22/2015 This water was assessed during the 2016 listing cycle; chlorophyll sample data partially exceeded 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life thresholds. The TP listing is proposed for deletion, but the water will remain listed for excess algal growth.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Echo Lake	Biologist	W23321
Local Waterbody Name	Echo Lake (Sugar Camp Chain)	WBIC	1597800
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW42
End Mile		Trophic Status	Eutrophic
Size	92.89	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/11/2016
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 472 (in part)		
Water Quality Trends	Condition has improved over time; water is not impaired.		
Comments:	Echo Lake is on the 303(d) list due to mercury from atmospheric deposition. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.		

TMDL ID	472 (in part)	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Water Delisted		

Impaired Waters Notes: 08/19/2015 This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.

Document Title	Author Name	Comment
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	
Notes on Proposed Changes to Fish Consumption Advice for 2014 Advisory July 2014	Candy Schrank	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Michigan	Biologist	Beranek, Ashley E
Local Waterbody Name	Alford Park Beach, Lake Michigan	WBIC	20
Water Type	GREAT LAKES BEACH	County(ies)	Kenosha
Start Mile		Watershed(s)	SE02
End Mile		Trophic Status	Data Not Available
Size	.23	NPS Rank	Not Ranked
Measurement Unit	MILES	Last Monitored	08/30/2017
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Condition has remained stable; water is not impaired.		
Comments:	This beach was assessed for the 2012 Impaired Waters List, and E. coli data exceeds listing thresholds indicating a recreational use impairment.		

This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.

This beach was assessed for the 2018 listing cycle; E. coli data sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use.

TMDL ID	2008-9	TMDL Priority	Delisted 2016
Date Listed	04/01/2008	Confirmed?	
Pollutant	E. coli		
Impairment	Recreational Restrictions - Pathogens		
TMDL Status	Water Delisted		

Impaired Waters Notes: 07/19/2011 This beach was assessed for the 2012 Impaired Waters List, and E. coli data exceeds listing thresholds indicating a recreational use impairment.
 08/19/2015 This beach was assessed for the 2016 Impaired Waters List and E. coli data did not exceed 2016 WisCALM listing criteria.

Document Title	Author Name	Comment
LAKE MICHIGAN BEACHES 2008 IMPAIRED WATERS DATA DOCUMENTATION	Helmuth	Query SWIMS for Available Data
2012 Kenosha County Beach Data	Nicole Clayton	
2016 Beach E. coli Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Range Line Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Range Line Lake	WBIC	478200
Water Type	LAKE	County(ies)	Forest
Start Mile		Watershed(s)	GB05
End Mile		Trophic Status	Eutrophic
Size	93.15	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/11/2016
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll sample data exceed criteria for the recreation use.		

This water was assessed during the 2014 listing cycle; chlorophyll sample data did not meet 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

TMDL ID	2012-3004	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes:	07/12/2017	This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.
	10/19/2015	This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

TMDL ID	2016-171
Date Listed	04/01/2016
Pollutant	Unknown Pollutant
Impairment	Excess Algal Growth

Impaired Water Short Report

Date Report Run: 03/22/2018

TMDL Status	303d Listed	TMDL Priority	Low
		Confirmed?	
		Listed For:	Recreation
		Current Use:	Full Body Contact
		Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/12/2017 This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

10/19/2015 This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Hulls Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Hulls Lake	WBIC	1762700
Water Type	LAKE	County(ies)	Taylor
Start Mile		Watershed(s)	BR12
End Mile		Trophic Status	Eutrophic
Size	67.26	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/02/2016
303d Listed?	Y		
DNR Category	Category 5C		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.		

This water was assessed during the 2016 listing cycle; total phosphorus and chlorophyll sample data exceeded 2016 WisCALM listing thresholds for the Recreation use, but did not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2018 listing cycle; new total phosphorus sample data exceeded 2018 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use; chlorophyll data only exceeded REC thresholds, not FAL.

TMDL ID	2014-264	TMDL Priority	Delisted 2016
Date Listed	04/01/2014	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 01/13/2014 This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	

TMDL ID	2016-243	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Fish and Aquatic Life
Impairment	Impairment Unknown, Excess Algal Growth	Current Use:	Deep Headwater
TMDL Status	303d Listed	Attainable Use:	FAL
		Designated Use:	Default FAL
		Listed For:	Recreation
		Current Use:	Full Body Contact
		Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/11/2017 This water was assessed during the 2018 listing cycle; new total phosphorus sample data exceeded 2018 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use; chlorophyll data only exceeded REC thresholds, not FAL.

Impaired Water Short Report

Date Report Run: 03/22/2018

08/07/2015 This water was assessed during the 2016 listing cycle; total phosphorus and chlorophyll sample data exceeded 2016 WisCALM listing thresholds for the Recreation use, but did not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Official Waterbody Name	Stone Lake	Biologist	W23321
Local Waterbody Name	Stone Lake (Sugar Camp Chain)	WBIC	1597600
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW42
End Mile		Trophic Status	Eutrophic
Size	178.32	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/11/2016
303d Listed?	N		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 472 (in part) T38N R09E S05		
Water Quality Trends	Condition has improved over time; water is not impaired.		
Comments:	Stone Lake was put on the 303(d) list due to mercury in 1998. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.		

TMDL ID	472 (in part)	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Water Delisted		

Impaired Waters Notes: 08/19/2015 This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide advisory is sufficient because mercury concentrations fall in the range of the general advisory.

Document Title	Author Name	Comment
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	
Notes on Proposed Changes to Fish Consumption Advice for 2014 Advisory July 2014	Candy Schrank	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Loveless Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Loveless Lake (Bass)	WBIC	2620000
Water Type	LAKE	County(ies)	Polk
Start Mile		Watershed(s)	SC05
End Mile		Trophic Status	Eutrophic
Size	131.5	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/17/2017
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll sample data exceed 2012 WisCALM listing thresholds for the recreation use.		

This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use.

TMDL ID	2012-6	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes:	06/16/2011	This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll sample data exceed 2012 WisCALM listing thresholds for the recreation use.
	03/24/2014	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not clearly meet REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.
	10/19/2015	This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Document Title	Author Name	Comment
Loveless Lake 2620000 TP Pkg Rpt 2012 Comprehensive 2014 TP Lakes Assessment	Aaron Larson Water Evaluation Section	
Loveless Lake 2620000 Chla Pkg Rpt 2012 Comprehensive 2016 Lake Reservoir Assessments	Aaron Larson Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

TMDL ID	2016-174	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/12/2017 This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use.

10/19/2015 This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Bearskin Lake	Biologist	SCHRACS
Local Waterbody Name	Bearskin Lake	WBIC	1523600
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW37
End Mile		Trophic Status	Eutrophic
Size	402.7	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	12/08/2017
303d Listed?	Y		
DNR Category	Category 5C		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	The lake experiences some seasonal algae blooms during lake turnover & late summer, but the lake seems to be relatively stable. A sediment core was taken and the model predicted that pre-settlement TP levels were 17 ug/l, while current TP levels are 28 ug/l, indicating anthropogenic contributions. However, the watershed is all forested and current anthropogenic sources are unknown. Additional monitoring and investigation is recommended on what sources may be contributing to phosphorus levels.		

This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll sample data exceed 2012 WisCALM listing thresholds for the recreation use.

This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

TMDL ID	2012-4	TMDL Priority	Delisted 2016
Date Listed	04/01/2012	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes:	06/16/2011	This water was assessed during the 2012 listing cycle, and total phosphorus and chlorophyll sample data exceed 2012 WisCALM listing thresholds for the recreation use.
	03/24/2014	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.
	10/19/2015	This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Impaired Water Short Report

Date Report Run: 03/22/2018

Document Title	Author Name	Comment
Bearskin Lake 1523600 TP Pkg Rpt 2012	Aaron Larson	
Bearskin Lake 1523600 Chla Pkg Rpt 2012	Aaron Larson	
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	

TMDL ID	2016-173	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/12/2017 This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Total phosphorus data were clearly below Recreation use and Fish and Aquatic Life use listing thresholds.

10/19/2015 This water was assessed during the 2016 listing cycle; chlorophyll sample data exceed 2016 WisCALM listing thresholds for the Recreation use, however, total phosphorus were clearly below REC thresholds. Total phosphorus and chlorophyll data were clearly below Fish and Aquatic Life listing thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Friess Lake	Biologist	Beranek, Ashley E
Local Waterbody Name	Friess Lake	WBIC	853200
Water Type	LAKE	County(ies)	Washington
Start Mile		Watershed(s)	UR09
End Mile		Trophic Status	Eutrophic
Size	121.46	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/16/2017
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds . Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.		

This water was assessed during the 2016 listing cycle; total phosphorus and chlorophyll sample data exceeded 2016 WisCALM listing thresholds for the Recreation use, but did not exceed Fish and Aquatic Life thresholds.

This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Chlorophyll sample data were clearly below listing thresholds for the Fish and Aquatic Life use.

TMDL ID	2014-241	TMDL Priority	Delisted 2016
Date Listed	04/01/2014	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 01/09/2014 This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds . Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	

TMDL ID	2016-215	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes: 07/12/2017 This water was assessed during the 2018 listing cycle; new chlorophyll sample data exceeded 2018 WisCALM listing thresholds for the Recreation use. Chlorophyll sample data were clearly below listing thresholds for the Fish and Aquatic Life use.

08/02/2015 This water was assessed during the 2016 listing cycle; total phosphorus and chlorophyll sample data exceeded 2016 WisCALM listing thresholds for the Recreation use, but did not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
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Impaired Water Short Report

Date Report Run: 03/22/2018

Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Lake Du Bay	Biologist	Beranek, Ashley E
Local Waterbody Name	Lake DuBay	WBIC	1412200
Water Type	IMPOUNDMENT	County(ies)	Marathon,Portage
Start Mile		Watershed(s)	CW11,CW13,CW14,CW15,CW16
End Mile		Trophic Status	Eutrophic
Size	4919.35	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/01/2017
303d Listed?	Y		
DNR Category	Category 5A		
Assessment Level	Monitored		
Assessment Unit Comments			
Water Quality Trends	Water is impaired due to one or more pollutants and associated quality impacts.		
Comments:	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.		

This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use.

This water was assessed during the 2018 listing cycle; new total phosphorus sample data clearly exceed 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use.

TMDL ID	2014-313	TMDL Priority	Delisted 2016
Date Listed	04/01/2014	Confirmed?	
Pollutant	Unknown Pollutant	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	Pollutant Removed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Waters Notes:	03/20/2014	This water was assessed during the 2014 listing cycle; chlorophyll sample data exceed 2014 WisCALM listing thresholds for the Recreation use, however, total phosphorus data do not exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.
	10/19/2015	This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use, and chlorophyll data exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Lake Du Bay 2014 Chla Assessment	Water Evaluation Section	
Comprehensive 2014 TP Lakes Assessment	Water Evaluation Section	

TMDL ID	2016-165	TMDL Priority	Low
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus	Listed For:	Recreation
Impairment	Excess Algal Growth	Current Use:	Full Body Contact
TMDL Status	303d Listed	Attainable Use:	Full Body Contact
		Designated Use:	Full Body Contact

Impaired Water Short Report

Date Report Run: 03/22/2018

Impaired Waters Notes: 10/19/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use, and chlorophyll data exceed REC thresholds. Total phosphorus and chlorophyll data do not exceed Fish and Aquatic Life thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Lake Du Bay 2014 Chla Assessment	Water Evaluation Section	

Impaired Water Short Report

Date Report Run: 03/22/2018

Official Waterbody Name	Chain Lake	Biologist	Gauthier, Kevin J
Local Waterbody Name	Chain Lake (Sugar Camp Chain)	WBIC	1598000
Water Type	LAKE	County(ies)	Oneida
Start Mile		Watershed(s)	UW42
End Mile		Trophic Status	Eutrophic
Size	200.92	NPS Rank	Not Ranked
Measurement Unit	ACRES	Last Monitored	09/11/2016
303d Listed?	Y		
DNR Category	Category 2		
Assessment Level	Monitored		
Assessment Unit Comments	TMDL ID = 472 (in part)		
Water Quality Trends	Proposed for removal from impaired waters during assessment period.		
Comments:	Chain Lake was added to the 303(d) list due to mercury in 1998. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide mercury advisory is sufficient because mercury concentrations fall in the range of the general advisory. The Mercury listing can be removed. Total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use and chlorophyll data did not exceed REC and FAL thresholds. A Total Phosphorus listing will be added in 2016.		

This water was assessed during the 2018 listing cycle; new total phosphorus and chlorophyll sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use. Total Phosphorus criteria for this lake were changed because this lake is no longer considered a Two-Story Fishery Lake. With this change there is no longer a total phosphorus impairment.

TMDL ID	472 (in part)	TMDL Priority	Delisted 2016
Date Listed	04/01/1998	Confirmed?	No
Pollutant	Mercury		
Impairment	Contaminated Fish Tissue		
TMDL Status	Pollutant Removed		

Impaired Waters Notes: 08/06/2015 Chain Lake was added to the 303(d) list due to mercury in 1998. This water was assessed during the 2016 listing cycle; new fish tissue data confirms that the statewide mercury advisory is sufficient because mercury concentrations fall in the range of the general advisory.

Document Title	Author Name	Comment
Choose wisely - 2014: A health guide for eating fish in Wisconsin	WDNR	
Notes on Proposed Changes to Fish Consumption Advice for 2014 Advisory July 2014	Candy Schrank	

TMDL ID	2016-236	TMDL Priority	Not Applicable
Date Listed	04/01/2016	Confirmed?	
Pollutant	Total Phosphorus		
Impairment	Water Quality Use Restrictions		
TMDL Status	Delist		

Impaired Waters Notes: 07/14/2017 This water was assessed during the 2018 listing cycle; new total phosphorus and chlorophyll sample data were clearly below 2018 WisCALM listing thresholds for the Recreation use and the Fish and Aquatic Life use. Total Phosphorus criteria for this

lake were changed because this lake is no longer considered a Two-Story Fishery Lake. With this change there is no longer a total phosphorus impairment.
08/06/2015 This water was assessed during the 2016 listing cycle; total phosphorus sample data overwhelmingly exceed 2016 WisCALM listing thresholds for the Recreation use and Fish and Aquatic Life use and chlorophyll data did not exceed REC and FAL thresholds.

Document Title	Author Name	Comment
Comprehensive 2016 Lake Reservoir Assessments	Water Evaluation Section	
Comprehensive 2018 Lake/Impoundment Water Quality Assessments	Water Evaluation Section	